

"High Frequency Ceramic Solutions"

900MHz 18dB Directional Coupler

P/N 0898CP14A035

Detail Specification: 6/6/2012

Page 1 of 3

General Specifications

Part Number	0898CP14A035
Frequency (MHz)	880 ~ 915
Insertion Loss max.	0.28 dB
Return Loss min.	15.56
VSWR max.	1.4 max.
Coupling	18 dB $\pm$ 1dB
Phase Difference (deg)	180 $\pm$ 1.0
Isolation min.	26.0 dB
Operating Temperature	-40 to +85°C
Power Capacity max	2 Watts (CW)
Recommended Storage Conditions	+5 to +35 °C, Humidity 45~75%RH
Reel Quantity	4,000
Storage Period	18 months max.
MSL	1

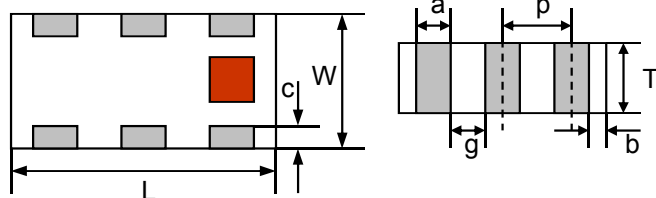


Orderable P/N's

Bulk (Loose)	0898CP14A035S
T&R (4000pcs)	0898CP14A035T
EVB	0898CP14A035-EB-SMA

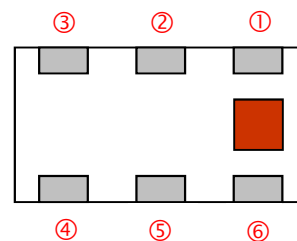
Mechanical Dimensions

	In	mm
L	0.063 $\pm$ 0.004	1.60 $\pm$ 0.10
W	0.031 $\pm$ 0.004	0.80 $\pm$ 0.10
T	0.024 $\pm$ 0.004	0.60 $\pm$ 0.10
a	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
b	0.008 + 0.004/-0.006	0.20 + 0.1/-0.15
c	0.006 $\pm$ 0.004 /-0.2	0.15 $\pm$ 0.10
g	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
p	0.020 $\pm$ 0.002	0.50 $\pm$ 0.05



Terminal Configuration

No.	Function
1	IN (Signal Input)
2	GND
3	COUPLED OUT
4	TERMINATION (50ohm)
5	GND
6	MAIN OUT (Signal Through)



Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



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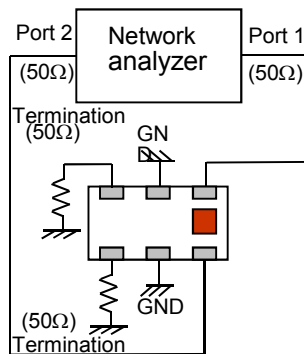
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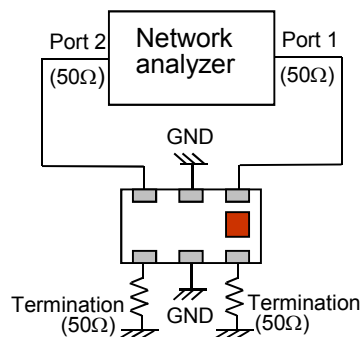
Page 2 of 3

Measuring Diagram

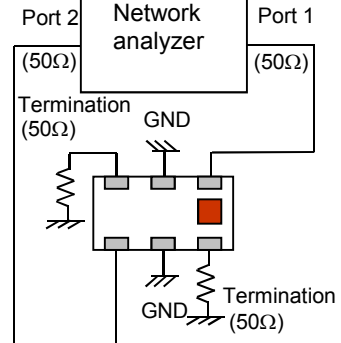
Attenuation



Coupling

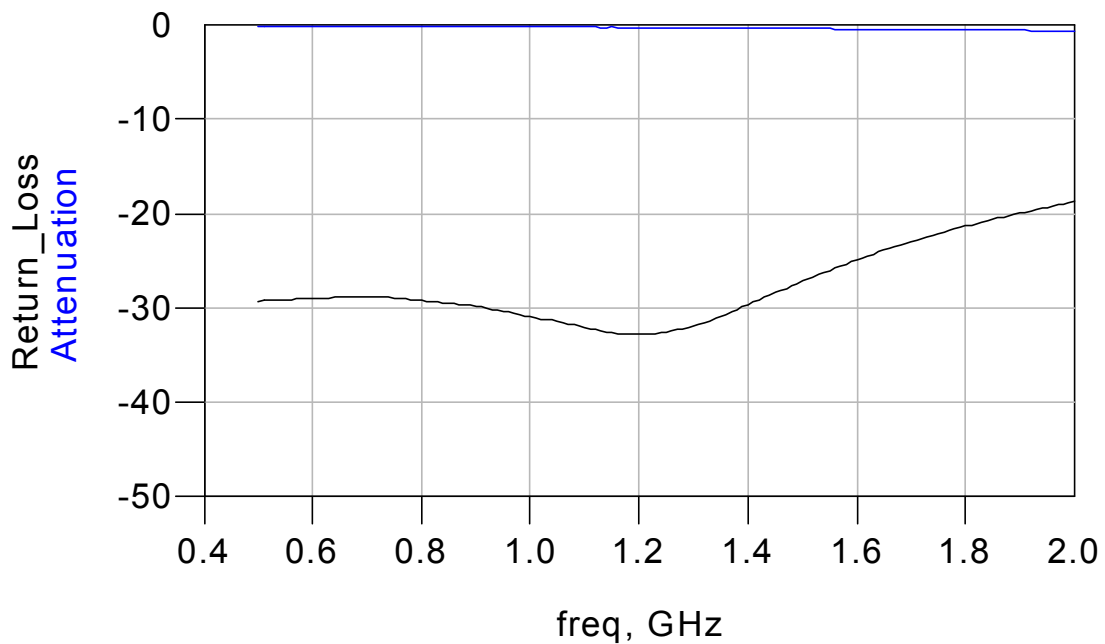


Isolation



Typical Electrical Performance (T=25°C)

Attenuation and Return Loss



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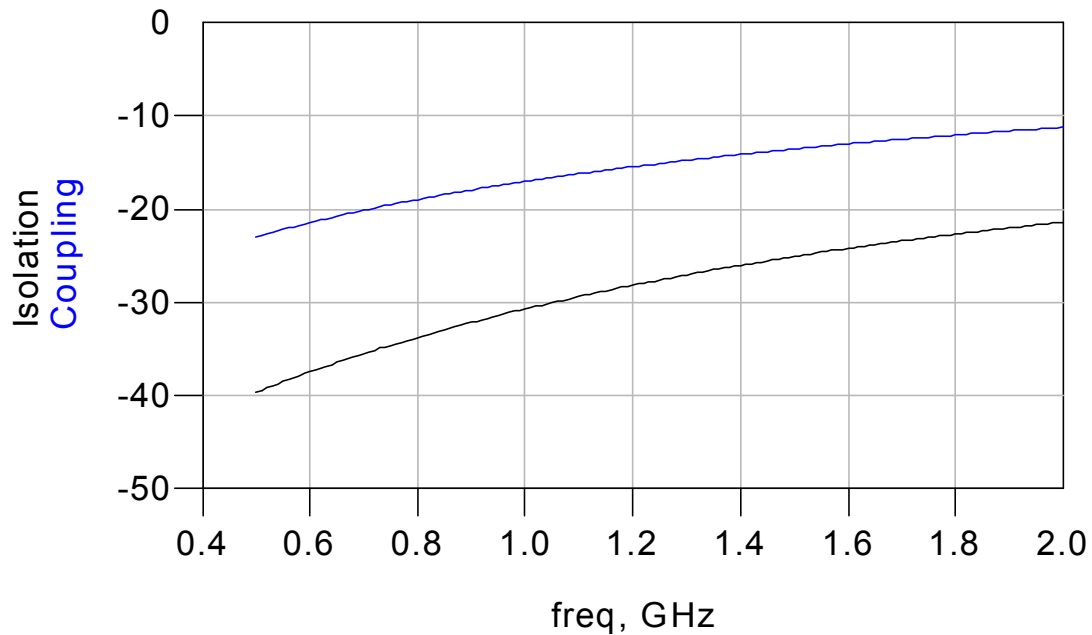
P/N 0898CP14A035

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Page 3 of 3

Typical Electrical Performance (T=25°C)

Coupling and Isolation



Mounting Considerations

Mount these devices with brown mark facing up.

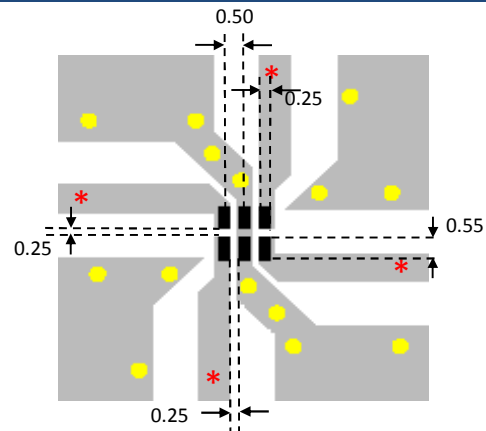
* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

LEGEND

- Solder
- Land
- Through-hole ($\phi 0.3$)

Unit : mm

Evaluation Board p/n: 0898CP14A035-EB-SMA



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